

Title (en)

METHODS AND APPARATUS FOR MIXING POWDERED SAMPLES

Title (de)

VERFAHREN UND VORRICHTUNGEN ZUM MISCHEN VON PULVERPROBEN

Title (fr)

PROCEDES ET APPAREIL PERMETTANT DE MELANGER DES ECHANTILLONS EN POUDRE

Publication

**EP 1635941 A2 20060322 (EN)**

Application

**EP 04755172 A 20040614**

Priority

- US 2004018833 W 20040614
- US 46052103 A 20030612
- US 86011304 A 20040603

Abstract (en)

[origin: WO2004110615A2] Apparatus for aspirating and dispensing powder, comprising a hopper having a powder transfer port and a suction port for connection to a source of suction to establish an upward flow of air (or other gas) through the transfer port. A gas flow control system varies the upward flow through the transfer port to have different velocities greater than 0.0 m/s. These velocities include an aspirating velocity for aspirating powder into the hopper through the transfer port to form a fluidized bed of powder in the hopper, and a dispensing velocity less than the aspirating velocity but sufficient to maintain fluidization of the bed while allowing powder from the bed to gravitate through the transfer port for dispensing into one or more destination receptacles. A method of aspirating and dispensing powder is also disclosed.

IPC 1-7

**B01J 19/00**

IPC 8 full level

**B01F 33/40** (2022.01); **B65B 1/16** (2006.01); **B65B 1/30** (2006.01); **G01G 13/24** (2006.01)

CPC (source: EP US)

**B01F 23/69** (2022.01 - EP US); **B01F 33/407** (2022.01 - EP US); **B01F 33/84** (2022.01 - EP US); **B01F 35/715** (2022.01 - EP); **B01F 35/718** (2022.01 - EP US); **B01F 35/881** (2022.01 - EP US); **B65B 1/16** (2013.01 - EP US); **B65B 1/30** (2013.01 - EP US); **G01G 13/24** (2013.01 - EP US); **B01F 35/715** (2022.01 - US); **B01F 2101/23** (2022.01 - EP US)

Citation (search report)

See references of WO 2004110615A2

Cited by

CN112752956A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2004110615 A2 20041223**; **WO 2004110615 A3 20050506**; EP 1635941 A2 20060322; US 2004261897 A1 20041230; US 7134459 B2 20061114

DOCDB simple family (application)

**US 2004018833 W 20040614**; EP 04755172 A 20040614; US 86011304 A 20040603